

LETTER OF APPLICATION

AND

TESTIMONIALS

IN FAVOUR OF

JOHN YULE MACKAY, M.D.,

SENIOR DEMONSTRATOR OF ANATOMY, UNIVERSITY OF GLASGOW ;

LATE SECRETARY FOR SCOTLAND OF THE ANATOMICAL

SOCIETY OF GREAT BRITAIN AND IRELAND,

*CANDIDATE FOR THE CHAIR OF ANATOMY IN THE
QUEEN'S COLLEGE, BELFAST,*

JULY, 1893.

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COPY OF LETTER OF APPLICATION.

*TO HIS EXCELLENCY
THE LORD LIEUTENANT OF IRELAND.*

THE UNIVERSITY, GLASGOW,
July, 1893.

MY LORD,

I beg to offer myself as a Candidate for the Chair of Anatomy in Queen's College, Belfast, vacant by the resignation of Professor Redfern.

I am thirty-three years of age. I studied in the University of Glasgow, and took in the year 1882 the Degrees of Bachelor of Medicine and Master of Surgery, and subsequently in 1885 that of Doctor of Medicine.

I have been for eleven years Demonstrator of Anatomy in this University, having in the summer previous to my graduation been appointed a junior on the staff. In the following year I succeeded to the senior position, and my duties since then have included the regular delivery of winter and summer courses of lectures and demonstrations on Human Anatomy and its practical applications to Medicine and Surgery, and I have had in my hands the entire management of the dissecting room. I have also for some years been in the habit of delivering a summer course of lectures on Embryology. I have had under Professor Cleland the special advantage of witnessing the formation of a large and important museum of Human and Comparative

Anatomy, and my attention has been constantly directed to the method of preparing and preserving specimens for permanent display.

In the winter 1886-87, I gave a course of lectures on Anatomy and Physiology to the working classes in the east-end of Glasgow, and I have been appointed a lecturer under the "University Extension Scheme" of this University.

While attending to my teaching duties, I have devoted a portion of my time to Anatomical research, and I send with this letter a list of my publications. During the last two years I have been engaged, in association with Professor Cleland, in preparing a text-book of Human Anatomy.

I have the honour to be,

MY LORD,

Your obedient Servant,

JOHN YULE MACKAY.

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LIST OF PUBLISHED WORKS.

- A Case of Lightning Stroke. *Glasgow Medical Journal*, 1883.
- The Arterial System of the Chamaeleon (*Chamaeleo vulgaris*).
Memoirs and Memoranda in Anatomy. Vol. I. London: Williams
& Norgate, 1889.
- The Arteries of the Head and Neck and the Rete Mirabile of the
Porpoise (*Phocæna communis*). *Memoirs and Memoranda*.
- Genito-urinary Malformations consequent on Pelvic Deformities.
Memoirs and Memoranda.
- Hermaphroditic Malformations. *Memoirs and Memoranda*.
- The Arterial System of Vertebrates homologically considered.
Memoirs and Memoranda.
- The Development of the Branchial Arterial Arches in Birds. *Philosophical Transactions of the Royal Society of London*. Vol. 179,
1888, 4 plates.
- The Development of the Branchial Arterial Arches in Birds.
(Abstract) *Proceedings of the Royal Society, London*. Vol. 42,
1887.
- The Nature and Development of the Carotid System. *British Association Report*, 1888.
- Cases of Abnormality of the Arteries of the Upper Limb. *Memoirs and Memoranda*.
- The Relations of the Aponeurosis of the Transversalis and Internal
Oblique Muscles to the Deep Epigastric Artery and to the
Inguinal Canal. *Memoirs and Memoranda*.
- Thoroughly revised edition of Prof. Cleland's "Directory for the Dis-
section of the Human Body." London: Smith, Elder, & Co., 1888.

TESTIMONIALS.

From JOHN CLELAND, M.D., D.Sc., LL.D., F.R.S., *Professor of Anatomy in the University of Glasgow.*

UNIVERSITY OF GLASGOW, *July, 1893.*

DR. MACKAY's position as an Anatomist is now so generally admitted that he may be said to be independent of testimony on this subject from me.

His ability as a thinker and trained observer is exhibited beyond dispute by his original researches, especially that by which he is best known—his memoir on the “Arterial Arches of Birds,” published in the *Philosophical Transactions*. All Embryologists know how much the name of Rathke is revered as that of a great and reliable authority, yet, in that memoir, it was Dr. Mackay's felicitous fortune to correct Rathke's work, precisely in the department in which he has been considered specially authoritative, detecting errors by acuteness of reasoning, and establishing his own views by laborious observation. His other memoirs show the same scientific grasp, and in particular, his “Arterial System of Vertebrates Homologically Considered” is an important communication displaying remarkable insight.

But while Dr. Mackay has earned by original work a place in the foremost rank of anatomical investigators, it is more particularly my duty to attest his ability and success as my principal coadjutor in all which pertains to this large Anatomical School. For ten years he has been accustomed to superintend a practical class, numbering between three and four hundred, and to train students in methods of careful and complete dissection, and his experience includes the delivery of a complete course of public Demonstrations every winter, summer courses of Embryology, and lectures on Histology given for me in my absence.

As a lecturer he is ready and fluent, and has the art of interesting and attaching students. He has the tact to preserve the strictest discipline without resort to other authority than his own, his approval being valued and his censure received as just.

Most of all is it to be noted that he is energetic and sagacious in managing the business of the Practical School, and thoroughly conversant with the conduct of the delicate arrangements on which the efficiency of an anatomical department is dependent.

During his time the art of preservation has been brought in this school to such perfection that not only is disagreeable odour unknown in the rooms, save in exceptional circumstances, but we are able to use the material for the finest details of microscopic work. Also, during the whole time that he has held this appointment, he has constantly seen all kinds of museum specimens in progress of preparation before his eyes.

It will certainly be very difficult indeed to find any one more thoroughly fitted than Dr. Mackay for the duties of Professor of Anatomy in a large medical school.

JOHN CLELAND.

From ISAAC BAYLEY BALFOUR, M.D., D.Sc., F.R.S, *Professor of Botany in the University of Edinburgh.*

ROYAL BOTANIC GARDENS,
EDINBURGH, *May*, 1893.

MY DEAR MACKAY,—That you should be successful in your application for the Chair of Anatomy in the Queen's College, Belfast, is my earnest hope. A more competent occupant could not be found, and in saying this I speak from personal knowledge of you and your work of no ordinary kind.

Your capacity for teaching you proved first as my assistant in the University of Glasgow for three years, and afterwards as assistant to Professor Cleland, and your appearances as a public lecturer, outside the University of Glasgow, speak further to your ability and skill as an imparter of knowledge. Your original memoirs tell their own tale of your powers as an investigator, and

to your excellent personal qualities your general popularity testifies. Add to all this the fact that your wide scientific training has developed sympathies with all branches of Science, and knowledge of others besides the one you now specially profess, and your equipment for a successful career as Professor, appears to me to be most complete.

I sincerely wish you success on this occasion. If I can assist your candidature by a detailed expression of opinion to any one, I shall be glad to give it, and I shall trust to you making use of any support I can give you in the way that may be most serviceable to you.—Believe me, yours very sincerely,

ISAAC BAYLEY BALFOUR.

From JOHN STRUTHERS, M.D., LL.D., etc., *Emeritus Professor of Anatomy in the University of Aberdeen.*

May, 1893.

I HAVE no hesitation in recommending DR. JOHN YULE MACKAY for the Professorship of Anatomy in Belfast, vacant by the retirement of Professor Redfern.

As a teacher of Anatomy, Dr. Mackay has had long and ample experience. The chief demonstratorship in so large a School of Anatomy as Glasgow University is a very responsible and laborious position, and Dr. Mackay has, I am aware, discharged its various duties with unqualified approval both in the dissecting-room and in the lecture-room.

But I would not regard even such experience in teaching as entitling to appointment to a Professor's Chair, unless the candidate had given evidence of attainments in the scientific aspect of Anatomy by original researches. Dr. Mackay has done so in a marked degree. His published papers are of the highest order, giving clear evidence of his powers as an observer and thinker, and that he is one who has lived laborious days in love with his subject. The importance of having Professors' Chairs filled by such men cannot be over-estimated—men who are not merely what are called successful teachers in the humbler sense of the

term, but who are authorities in the subject as observers and thinkers, and who can therefore inspire their students with love of work.

Besides his natural bent in that direction, Dr. Mackay has had in Professor Cleland a master who is unsurpassed among the Anatomists of the present time, whose training and example would guide him in his future life-work as Professor.

Dr. Mackay seeks to fill the Chair now vacated by my old friend and fellow-student, Dr. Redfern, who carried with him to Belfast the high standard of the Scottish Universities, and who has done so much to raise the position of the Belfast School of Medicine. I would regard Dr. Mackay as a most worthy successor to Dr. Redfern, and as having very high claims to appointment to the Chair, or, indeed, to any Chair of Anatomy.

JOHN STRUTHERS.

From ALEXANDER MACALISTER, M.D., F.R.S., *Professor of Anatomy in the University of Cambridge.*

CAMBRIDGE, Dec. 22nd, 1892.

MY DEAR DR. MACKAY,—Your position as an Anatomist of foremost rank and of original power of research is so well recognised that there is little need of formal testimonials in support of your candidature. The work you have done in connection with vascular morphology is of such conspicuous merit, and shows so much patient and laborious research, that it alone would be sufficient to establish your reputation. But you have also in other branches advanced our knowledge of Anatomy.

With your experience of a large University School, I cannot imagine any candidate better fitted to fill a Chair of Anatomy than you are.—With best wishes, very faithfully yours,

ALEX. MACALISTER.

From ALEX. HILL, M.A., M.D., Master of Downing, Cambridge.

DOWNING COLLEGE, *May*, 1893.

I AM glad that DR. MACKAY has given me the opportunity of expressing my opinion as to his fitness to occupy the Chair of Anatomy in the Queen's College, Belfast.

Whilst examining in Glasgow, I have been brought into intimate contact with the teaching arrangements made under his (Dr. Mackay's) direction, as well as with the effect of his work in preparing the students, and am convinced that he is a man sure to gain the confidence and friendship of the students, thoroughly experienced in the methods of Anatomical teaching, and likely to prove an interesting and successful lecturer, either to a class of medical students or to a popular audience.

Dr. Mackay's published work appears to me the outcome of patient, conscientious, and cautious work.

ALEX. HILL.

From MICHAEL FOSTER, M.A., M.D., LL.D., Sec. R.S., Professor of Physiology in the University of Cambridge.

CAMBRIDGE, *May*, 1893.

I HAVE very little knowledge of DR. MACKAY beyond his published works. These show him to be an able Anatomist, and his paper in the *Philosophical Transactions* has always appeared to me to be a piece of excellent work. I can say nothing as to his powers as a teacher, but otherwise he appears to me to have decided claims for a Chair of Anatomy.

M. FOSTER.

*From J. BURDON SANDERSON, M.D., LL.D., F.R.S., Professor of
Physiology in the University of Oxford.*

OXFORD, 8th July, 1893.

DR. J. Y. MACKAY has given me the opportunity of expressing my opinion of his qualifications for the post of Professor of Anatomy in the Queen's College, Belfast.

Dr. Mackay's capabilities as an investigator, and his remarkable power as a thinker and observer, are evidenced by his important contributions to Comparative Anatomy, especially those on the vascular system of the Porpoise, and on the development of the branchial arches in Birds, and on the morphology of the arteries in Vertebrates generally.

His special knowledge of the details of Human Anatomy, and his interest in the subject, and in its application to Surgery, are as clearly proved by his more recent anatomical papers, and by his able revision of Professor Cleland's "Dissector."

Having had the pleasure of hearing Dr. Mackay lecture on Anatomy, I can state that he appears to me to be a first-rate Lecturer and Demonstrator. He has perfect command of his subject, and has the faculty of retaining the attention of a large audience of students.

J. BURDON SANDERSON.

*From SIR W. H. FLOWER, K.C.B., LL.D., F.R.S., F.R.C.S.,
Director of the Natural History Department, British Museum.*

BRITISH MUSEUM,
LONDON, May, 1893.

I CAN say nothing from personal knowledge of DR. J. Y. MACKAY'S fitness for the Chair of Anatomy at Queen's College, Belfast, but he has proved himself a capable original investigator by his paper published in the *Philosophical Transactions* on "The Development of the Branchial Arterial Arches in Birds"; and his experience as Senior Demonstrator in the University of Glasgow, under Prof. Cleland, must have given him great opportunities for acquiring the requisite qualifications for the post.

W. H. FLOWER.

*From E. A. SCHÄFER, F.R.S., Professor of Physiology and Histology
in University College, London ; Editor of "Quain's Anatomy."*

LONDON, 21st December, 1892.

DEAR DR. MACKAY,—I fear that my opinion as to the qualifications of candidates for a Chair of Anatomy is of far less value than that of many of those who have given you testimonials. But I need have no diffidence in saying that the part of your original work which I am competent to form an opinion about, viz., your paper on the "Development of the Branchial Arterial Arches," is, in my opinion, a contribution to research of the first rank, and affords evidence that your future labours in the same field would do credit to the holder of any Chair of Anatomy and Morphology in the kingdom.—Believe me, dear Dr. Mackay, yours faithfully,

E. A. SCHÄFER.

*From J. D. THANE, Professor of Anatomy, University College,
London (Editor of Quain's Anatomy).*

May, 1893.

DR. YULE MACKAY'S writings, especially those on the "Development and Morphology of the Arterial System," are of the highest interest and value, and have been of great service to me. In my opinion they show him to be highly qualified, so far as grasp of his subject and power of investigation are concerned, to fill an Anatomical Chair. In another direction Dr. Mackay is equally well qualified by his experience as Demonstrator in the University of Glasgow, under Professor Cleland. Among the number of exceptionally good candidates for the Professorship at Belfast Dr. Mackay undoubtedly takes a prominent position, and he presents claims which entitle him to the most careful consideration.

J. D. THANE.

*From J. BELL PETTIGREW, M.D., LL.D., F.R.S., F.R.C.P., Chandos
Professor of Medicine and Anatomy, and Dean of the Medical
Faculty of the University of St. Andrews.*

UNIVERSITY OF ST. ANDREWS,
24th May, 1893.

HAVING known DR. JOHN YULE MACKAY for several years from being brought frequently into contact with him when I was examiner in Anatomy at the University of Glasgow, and being familiar with his numerous dissections and important contributions to Comparative and Human Anatomy, and being moreover cognisant of his success as a Demonstrator and Teacher of Human Anatomy for many years at the prosperous School of Medicine at Glasgow University, I have great pleasure in strongly recommending him as in every way qualified to fill the Chair of Anatomy in the Queen's College, Belfast, vacant by the resignation of Professor Redfern.

Dr. Mackay, in my opinion, only requires a fair field to become a most useful and distinguished Teacher of Anatomy. He has been carefully educated, is well read, a lover of his subject, a patient original inquirer, and above all a thinker.

Teaching is only one of the functions performed by a Scotch Professor. Dr. Mackay can both teach Anatomy and extend its boundaries. He can convey to the student in pleasant form the knowledge necessary for his degree, and he can expound the higher knowledge which is the outcome of scientific research and scientific aspirations. It is seldom the two functions referred to are found in the same individual, and Dr. Mackay's claims are deserving of very special attention from the circumstance.

To education, experience, enthusiasm, and great mental capacity, Dr. Mackay adds urbanity and kindness of disposition, very important qualities in a public man and a colleague. If elected he could not fail to be a favourite with his brother Professors and with the Students, and I very cordially wish him success in his present application.

J. BELL PETTIGREW.

From W. C. M'INTOSH, M.D., LL.D., F.R.S., Professor of Natural History in the University of St. Andrews.

2 ABBOTSFORD CRESCENT,
ST. ANDREWS, *May*, 1893.

I HAVE much pleasure in stating that I believe DR. JOHN YULE MACKAY to be well qualified to fill the Chair of Anatomy in the Queen's College, Belfast.

He has had a thorough training under one of the most able and original Anatomists in Britain. Further, for ten years he has acted as Senior Demonstrator in the University of Glasgow, a sufficient guarantee for that accurate knowledge of structural details so necessary to an Anatomist. He has had large experience in teaching and lecturing, and has borne himself in all his responsible positions in a manner which has gained the confidence of both Students and Professors.

Moreover, Dr. Mackay is an able original inquirer, as shown in his various Anatomical Memoirs, in the joint works by Professor Cleland and himself, and also in the Proceedings of Societies, while his paper on the "Development of the Branchial Arterial Arches in Birds" (published in the *Philosophical Transactions*) is one of great merit. His revised edition of Professor Cleland's "Directory of the Dissection of the Human Body" is also a proof of the labour he has bestowed on his special department.

I am of opinion that from his original abilities, his thorough training and large experience, he would fill the Chair with credit to the College and advantage to Science.

W. C. M'INTOSH.

From PROF. HOCHSTETTER, Vienna.

WIEN, *dem 16th Mai*, 1893.

SEHR GEEHRTER HERR COLLEGE,—Sie schreiben mir dass sie sich um eine Professor für Anatomie in Belfast bewerben und bitten mich ihnen bei dieser Bewerbung durch die Ausstellung einer Zeugnisser über ihre Arbeit, "The Development of the

Branchial Arterial Arches in Birds, with special reference to the Origin of the Subclavian and Carotids" dabei behilflich zu sein. Wenn man wie sie meinen mein Urtheil in Dingen die die Entwicklung des Gefässsystems betreffen in England für massgebend hält, so wird es mir eine besondere Freude bereiten ihnen durch diese Zeilen behilflich zu sein. Ich habe einerzeit, als ich mich mit dem Gegenstand ihrer Arbeit beschäftigte, dieselbe mit grossem Vergnügen gelesen, da sie in derselben einige hochwichtige Fragen der vergleichenden Morphologie des Gefässsystems in so einfacher und gewiss auch endgiltiger Weise beantwortet haben. War ich jedoch in der Lage in meiner Arbeit über die Entwicklung der Arteria Subclavia der Vögel die ich abgeschlossen hatte bevor mir ihre Arbeit in die Hände kam, ihre Angaben in den wesentlichsten Punkten zu bestätigen. Jedenfalls haben sie durch ihre Arbeit eine Reihe von Punkten in der vergleichenden Anatomie und Entwicklungsgeschichte des Gefässsystems der Amnioten, die selbst unserem so berühmten Altmeister H. Rathke unklar geblieben waren, entsprechend klargestellt und sich dadurch um den Fortschritt der morphologischen Wissenschaften ein dauerender Verdienst erworben. Mögen ihnen diese Zeilen mit behilflich sein ihr Ziel, die Professor in Belfast zu erreichen, was ich ihnen von Herzen wünsche. Hoffentlich habe ich auch einmal Gelegenheit sie persönlich näher kennen zu lernen.

Indem ich mich ihnen bestens empfehle zeichne ich als ihr aufrichtiger

FERDINAND HOCHSTETTER.

From the VERY REV. JOHN CAIRD, D.D., LL.D., Etc., *Principal of the University of Glasgow.*

UNIVERSITY OF GLASGOW,
June, 1893.

I GLADLY bear testimony to the high scientific reputation which DR. J. YULE MACKAY has attained in this University, and to his efficiency and success as a teacher. I am, of course, unable to

speak from the point of view of an expert, but I know from very competent testimony that he is thoroughly versant in the Science of Anatomy, to which he has devoted his life, and to which, as an investigator, he has already made valuable contributions.

He has been for eleven years Assistant to the Professor of Anatomy in this University, and has proved himself a very able and interesting lecturer. He is much esteemed and liked by both Professors and Students. So far as I can judge, he is thoroughly competent for the position to which he aspires, the Chair of Anatomy in the Queen's College, Belfast.

JOHN CAIRD.

From JOHN YOUNG, M.D., Regius Professor of Natural History in the University of Glasgow.

UNIVERSITY OF GLASGOW,
24th May, 1893.

DR. YULE MACKAY has given abundant proof in the Lecture Room and Laboratory that he is a thorough Anatomist and a most successful teacher. His published writings have shown that he possesses not merely technical but philosophic knowledge of the Comparative Anatomy and Development of the Vertebrates, knowledge without which the Professor of Human Anatomy can discharge only a part of his duties. Dr. Mackay is deservedly esteemed by his students, over whom, even after they have passed out of his department, he continues to exert an important influence.

I support his candidature for the Chair of Anatomy in Belfast, because he is exceptionally qualified for the duties of a teacher, and because as a holder of that office he would have extended opportunities of enhancing a reputation as an original observer, which rests upon excellent published work.

JOHN YOUNG.

From JOHN G. M'KENDRICK, M.D., LL.D., F.R.S., *Regius Professor of Physiology in the University of Glasgow.*

THE UNIVERSITY,
GLASGOW, *May*, 1893.

I HAVE much pleasure in strongly supporting the claims of DR. J. YULE MACKAY for the Chair of Anatomy in Queen's College, Belfast, and I do so on the following grounds:—

1st. Dr. Yule Mackay has devoted his entire time and attention to the Science of Anatomy during the last eleven years, and he has pursued his anatomical studies with singleness of aim and earnestness of purpose.

2nd. He has enjoyed, as the Senior Demonstrator of Anatomy in the University of Glasgow, the opportunity of learning the art of teaching, and of dealing with large bodies of students, and I am able to say that his ability as a teacher is cordially recognised, both by the students and by the members of the Medical Faculty.

3rd. Dr. Mackay is an able lecturer. I have on several occasions had the opportunity of listening to his prelections, and I was struck by the marked ability shown, both in the choice of language and in the arrangement of the facts to be placed before the audience.

4th. Dr. Mackay has been actively engaged in original investigation, and he has been able to make substantial contributions to Anatomical Science.

For these reasons, in addition to the personal regard I have for his excellent qualities as a man, I cordially wish him success in his candidature, and I feel sure his appointment would be in the best interests of the College.

JOHN G. M'KENDRICK.

From GEORGE BUCHANAN, M.A., M.D., *Professor of Clinical Surgery in the University of Glasgow, formerly Lecturer on Anatomy in the Andersonian Medical School.*

193 BATH STREET,
GLASGOW, 24th May, 1893.

I CAN, with the utmost confidence, recommend DR. J. YULE MACKAY for the Chair of Anatomy in Queen's College, Belfast. Dr. Mackay is imbued with the spirit of original research, of which he has given evidence in his published papers.

He has had large practical experience in the teaching of Anatomy, having been for many years the Principal Demonstrator in Glasgow University, and also Assistant Lecturer under Professor Cleland, in which capacity he has taught large classes of students. Having myself been a teacher of Anatomy I know that the duties he has already undertaken are the best preparation for the full responsibilities of a Professorial Chair.

The University students come under my charge after they have passed through the Anatomy course, and I know from personal knowledge the very high estimation in which Dr. Mackay is held as a Lecturer, and that is a better criterion of a teacher's ability than any simply personal conviction.

I, therefore, strongly urge Dr. Mackay's claims on the patrons of the Belfast Chair.

GEORGE BUCHANAN.

From W. T. GAIRDNER, LL.D., M.D., F.R.S., *Regius Professor of Practice of Medicine in the University of Glasgow.*

UNIVERSITY OF GLASGOW,
22nd May, 1893.

ANATOMY, Human and Comparative, is now so comprehensively taught in all our Scottish Universities, that, although it is the foundation of all Medical Science, I do not consider myself at all competent to give an opinion as an expert on the qualifications of any one aspiring to succeed my old and valued friend, Professor Redfern of Belfast.

What I have to say, therefore, on behalf of DR. J. YULE MACKAY must be read in the light of what goes before, and I have no doubt that, from really scientific Anatomists, he will be able to present ample testimony as to his work, which, as I hear in all quarters, is of a very high quality and wide range.

But as one whose duty lies in the same School, and among the same colleagues and pupils, I may be excused for bearing witness emphatically on behalf of Dr. Mackay that he is a man of philosophical mind, and an admirable and approved teacher; that he is a great favourite with his students, and equally so with all of us Professors in Glasgow; and that, in my opinion, the College of Belfast will be very fortunate if it has Dr. Mackay as its Anatomical Professor.

W. T. GAIRDNER.

From MATTHEW CHARTERIS, M.D., *Regius Professor of Materia Medica and Therapeutics, University of Glasgow.*

GLASGOW, 24th May, 1893.

DEAR DR. J. YULE MACKAY,—I have no hesitation in complying with your request, and in expressing the opinion that you are in every respect qualified to fill with distinction the Chair of Anatomy in the Queen's College, Belfast.

This opinion is based upon an intimate acquaintance with you extending over many years. During that time everything I have known or heard of you has always been in your praise.

Your anatomical knowledge is, I understand, very accurate and complete, and you can explain details in the lecture room in a clear and interesting manner. You are also an experienced and able demonstrator, and you have done good and original scientific work in the field of Comparative Anatomy.

I sincerely trust your application for the Chair will be successful, although this success would be a great loss to the University of Glasgow, with which you have been so long connected.—Believe me, faithfully yours,

M. CHARTERIS.

From FREDERICK O. BOWER, D.Sc., F.R.S., *Regius Professor of Botany in the University of Glasgow.*

UNIVERSITY OF GLASGOW,
24th May, 1893.

HEARING that DR. YULE MACKAY is a candidate for the Chair of Anatomy in the Queen's College, Belfast, I have much pleasure in testifying to his fitness for such a post.

Of his qualifications as an Anatomist, I leave others to speak who may be better able to judge, though his published works afford most satisfactory evidence. I would rather point out that he is not a mere technical Anatomist, but that he takes a broad biological view.

In my own Science of Botany, his qualifications were such as to justify his appointment as assistant to my predecessor, Dr. Bayley Balfour, and I have been repeatedly indebted to him for his presence and assistance on botanical excursions, etc. On these and other occasions I have had the opportunity of seeing how firm and, at the same time, friendly a hold he had gained over the students, and this is one of the greatest secrets of success in scientific teaching.

These qualities, coupled with a real enthusiasm for his subject, make me sure that, by his appointment, Belfast would gain a most efficient Professor.

F. O. BOWER.

SELECTIONS FROM FORMER TESTIMONIALS.

From CARL GEGENBAUR, *Professor of Anatomy in the University of Heidelberg, Germany.*

[TRANSLATION.]

HEIDELBERG, 27th May, 1888.

DEAR SIR,—While I thank you for your enclosures, I must inform you that I am prevented upon principle from sending a testimonial. You are well aware that in England there was, or now is, an agitation against this practice, and that we foreigners have been reproached on account of it. I regarded this as not altogether groundless, and since then have not permitted myself to give a testimonial.

This does not prevent me, however, from acknowledging your works, nor from expressing my pleasure that in your research into the development of the arterial arches you have made such an important contribution to the Morphology of the Arterial system. I recognise also in your works an important attempt to reach a scientific explanation, and I do not doubt but that your fellow-countrymen will also acknowledge and value this.

I can therefore send you this with my best wishes for your success.—Yours, etc.,

C. GEGENBAUR.

From DR. ROBERT WIEDERSHEIM, *Professor of Anatomy and Comparative Anatomy in the University of Freiburg, Germany.*

[TRANSLATION.]

FREIBURG, 27th May, 1888.

I HAVE read with keen interest the scientific works of DR. JOHN YULE MACKAY, Senior Demonstrator of Anatomy in the Uni-

versity of Glasgow. They all made on me the impression of great precision and solidity, and prove that the author is well skilled in the field of Anatomy. In clear and well directed fashion Comparative Anatomy research stands forward throughout as the groundwork of a scientific mastery of Human Anatomy.

So my best wishes for his future career accompany Dr. Mackay.

ROBERT WIEDERSHEIM.

*From the late SIR GEO. H. B. MACLEOD, Kt., M.D., F.R.S.E.,
Regius Professor of Surgery in the University of Glasgow, and
Surgeon in Ordinary to the Queen.*

GLASGOW UNIVERSITY,
July, 1889.

DEAR DR. YULE MACKAY,—I sincerely hope that your candidship for the appointment in Aberdeen may be successful for the good of that School, as I am well aware how admirably you have done your work here, and how much your teaching has been appreciated by our students.

I well remember what a distinguished student you were yourself, and I have often heard of your marked success as a Demonstrator of Anatomy since you joined my colleague, Dr. Cleland, in teaching others.

With your enthusiasm and conscientiousness in the discharge of your duties, and with the marked power you possess of conveying instruction, I am convinced that a better teacher could not be found for any School of Medicine.—With the best wishes for your success, I am, dear Dr. Mackay, yours faithfully,

GEO. H. B. MACLEOD.

*From WM. LEISHMAN, M.D., Regius Professor of Midwifery in the
University of Glasgow.*

HAVING known DR. JOHN YULE MACKAY since he was a student, and having had constant opportunities of following his career as a teacher of Anatomy, I have no hesitation whatever in ex-

pressing my conviction that it would be difficult to find a more able or accomplished teacher for the Chair now vacant in the University of Aberdeen. While I am certain that the amiability of his disposition would recommend him to his colleagues, I am equally convinced that this, combined with his firmness of character, could scarcely fail to command success in the conducting of classes mainly composed of junior students.

WILLIAM LEISHMAN.

From WM. SMART, M.A., LL.D., Secretary for the "University Graduates Lectures"; Lecturer on Political Economy in Queen Margaret College, Glasgow.

19th July, 1889.

DR. YULE MACKAY asks me to speak of his connection with the "University Graduates Lectures" in Glasgow, for which I acted as Secretary.

In the winter 1886-87, knowing of Dr. Mackay by repute as one of the most successful graduates of his time, I asked him to give a course of lectures on Anatomy and Physiology to working people. These lectures were delivered in the heart of the east end, and were attended by a large and regular audience. It is not too much to say that they were brilliantly successful, and, I should think, repaid Dr. Mackay for his trouble—success being the only fee our lecturers ever got or asked for. I do not think any man could have done better for us. Dr. Mackay was thus one of the pioneers of the movement that has ended in the present University Extension.

I may be allowed to say that I then formed the opinion, which personal experience of his teaching in the Anatomy class has confirmed, that he not only knows his subject thoroughly, but is an admirable teacher of it. I should say that Dr. Mackay is entirely suited for the position for which he is now a candidate.

WM. SMART.

From ASSISTANTS TO PROFESSORS in the University of Glasgow.

UNIVERSITY OF GLASGOW,
19th July, 1889.

DEAR DR. MACKAY,—Having learned that you are a candidate for the Chair of Anatomy in Aberdeen, we, your Fellow-Assistants and Demonstrators, desire to assure you of our earnest hopes for your success.

We know well, several of us having been your pupils, your great ability as a teacher, your extensive and accurate knowledge of your subject, and your power of marshalling your facts so as to make them interesting and easily grasped. Your diligent and careful supervision of the Practical Anatomy, and your clear and lucid demonstrations—in which your experience as a worker, and your thorough acquaintance with Embryology and Comparative Anatomy enable you to explain any apparent anomalies—have ensured diligent, steady, and intelligent work among the students, with whom you are deservedly most popular.

Your genial manner and many admirable qualities have endeared you to us as a personal friend, so that we shall be sorry to lose you, although we shall be glad if you obtain your well-earned preferment.

SIGNED BY 26 ASSISTANTS IN THE UNIVERSITY OF GLASGOW.

*From GRADUATES OF GLASGOW UNIVERSITY—Students during
Dr. J. Y. Mackay's Demonstratorship.*

DR. YULE MACKAY'S candidature for the Chair of Anatomy in the University of Aberdeen affords us, as recent Graduates of Glasgow University, an opportunity of expressing our goodwill towards him, and our appreciation of our indebtedness to him, as one of our former teachers. During the years of Anatomical study we were in daily intercourse with him in the special

branch to which he has devoted himself, and throughout the whole curriculum his influence was felt to pervade the public College life. In the lecture room and at the dissecting table Dr. Mackay was equally noted for his devotedness to his work: he combined profound knowledge with tact to turn it to account, and perfect courtesy with strict but cheerfully acknowledged discipline. In the memory of his example, and in his published works, he remains our teacher.

While recognising that Dr. Mackay's removal from Glasgow would be a serious loss to our University, we heartily wish him all success in his present candidature, and in his career as an Anatomist.

SIGNED BY 240 GRADUATES.

